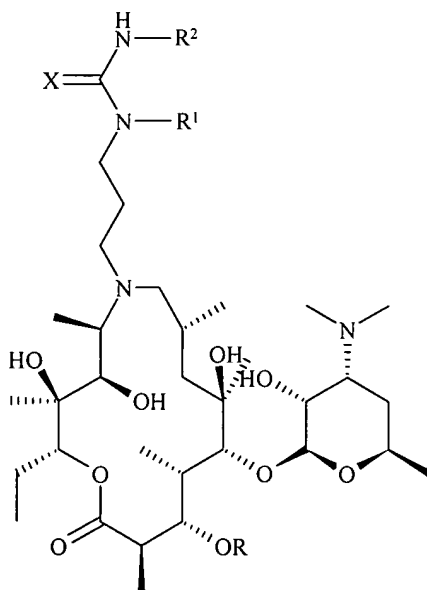


## AMENDMENTS TO THE CLAIMS

1. (Currently Amended) N''-Substituted 9a-N- (N'-carbamoyl- $\gamma$ -aminopropyl), 9a-N- (N'-thiocarbamoyl- $\gamma$ -aminopropyl), 9a-N-[N'-( $\beta$ -cyanoethyl)-N'-carbamoyl- $\gamma$ -aminopropyl] and- 9a-N- [N'-( $\beta$ -cyanoethyl)-N'-thiocarbamoyl- $\gamma$ -aminopropyl] derivatives of 9-deoxo-9-dihydro-9a-aza-9a-homoerithromycin A and 5-O-desosaminy-9- -deoxo-9-dihydro-9a-aza-9a-homoerithronolide A, novel semisynthetic macrolide antibiotics of the azalide series of the general formula 1,



wherein R represents H or cladinosyl moiety,

R<sup>1</sup> represents H or  $\beta$ -cyanoethyl moiety,

R<sup>2</sup> represents isopropyl, 1-naphtyl, 2-naphtyl, benzyl, 2-(trifluoromethyl)phenyl, 3-phenylpropyl,  $\beta$ -phenylethyl, ethoxycarbonyl-methyl, 1-(1-naphtyl)ethyl, 3,4,5-trimethoxyphenyl ~~and~~ or a 2,4-dichlorophenyl group, and

X represents O ~~and~~ or S,

and their acceptable addition salts thereof with inorganic or organic acids.

2. (Currently Amended) Substance according to claim1, characterized in that R ~~represents cladinosyl group~~ and R<sup>1</sup> represents H, R<sup>2</sup> represents isopropyl group and X is O.
3. (Currently Amended) Substance according to claim1, characterized in that R ~~represents cladinosyl group~~, R<sup>1</sup> represents H, and R<sup>2</sup> represents 1-naphthyl group and X is O.
4. (Currently Amended) Substance according to claim1, characterized in that R ~~represents cladinosyl group~~, R<sup>1</sup> represents H and R<sup>2</sup> represents 2-naphtyl group and X is O.
5. (Currently Amended) Substance according to claim 1, characterized in that R ~~represents cladinosyl group~~, R<sup>1</sup> represents H and R<sup>2</sup> represents benzyl group and X is O.
6. (Currently Amended) Substance according to claim 1, characterized in that R ~~represents cladinosyl group~~, R<sup>1</sup> represents H and R<sup>2</sup> represents 2-(trifluoromethyl) phenyl group and X represents O.
7. (Currently Amended) Substance according to claim1, characterized in that R ~~represents cladinosyl group~~, R<sup>1</sup> represents H and R<sup>2</sup> represents 3-phenylpropyl group and X is S.
8. (Currently Amended) Substance according to claim1, characterized in that R ~~represents cladinosyl group~~, R<sup>1</sup> represents H and R<sup>2</sup> represents β-phenylethyl group and X is S.
9. (Currently Amended) Substance according to claim 1, characterized in that R ~~represents cladinosyl group~~, R<sup>1</sup> represents H and R<sup>2</sup> represents ~~etoxycarbonylmethyl~~ ethoxycarbonylmethyl group and X is O.

10. (Currently Amended) Substance according to claim 1, characterized in that ~~R represents cladinosyl group~~,  $R^1$  represents H and  $R^2$  represents 1-(1-naphtyl) ethyl group and X is O.
11. (Currently Amended) Substance according to claim 1, characterized in that ~~R represents cladinosyl group~~,  $R^1$  represents H and  $R^2$  represents 3,4, 5-trimethoxyphenyl group and X is O.
12. (Currently Amended) Substance according to claim 1, characterized in that ~~R represents cladinosyl group~~,  $R^1$  represents H and  $R^2$  represents 2,4-dichlorophenyl group and X is O.
13. (Currently Amended) Substance according to claim 1, characterized in that ~~R represents cladinosyl group~~,  $R^1$  represents H and  $R^2$  represents benzyl group or 1-naphtyl group and X is S.

Claims 14 – 19 (Canceled)

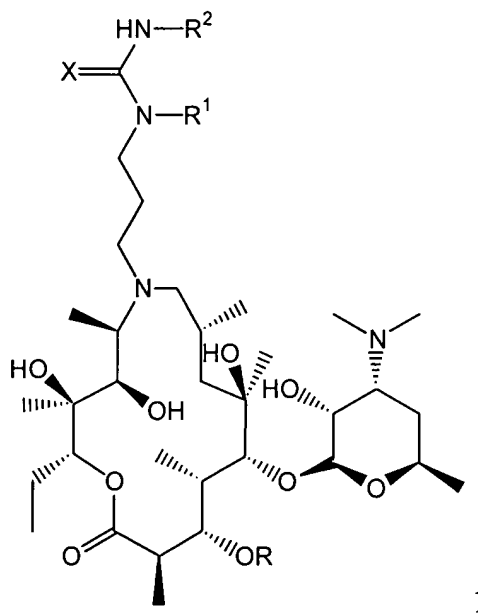
20. (Currently Amended) Substance according to claim 1, characterized in that ~~R represents cladinosyl group~~,  $R^1$  represents  $\beta$ -cyanoethyl group,  $R^2$  represents 3-phenylpropyl group and X is S.
21. (Currently Amended) Substance according to claim 1, characterized in that ~~R represents cladinosyl group~~,  $R^1$  represents  $\beta$ -cyanoethyl group,  $R^2$  represents  $\beta$ -phenylethyl group and X is S.

Claims 22 - 24 (Canceled)

25. (Currently Amended) Substance according to claim 1, characterized in that ~~R represents cladinosyl group~~,  $R^1$  represents  $\beta$ -cyanoethyl group,  $R^2$  represents 2,4-dichlorophenyl group and X is O.

Claims 26 – 53 (Canceled)

54. (Currently Amended) Process for the preparation of N''-substituted 9a-N- (N'-carbamoyl- $\gamma$ -aminopropyl), 9a-N-(N'-thiocarbamoyl- $\gamma$ -aminopropyl), 9a-N-[N'-( $\beta$ -cyanoethyl)-N'-carbamoyl- $\gamma$ -aminopropyl] and 9a-N- [N'-( $\beta$ -cyanoethyl)-N'-thiocarbamoyl- $\gamma$ -aminopropyl] derivatives of 9-deoxo-9-dihydro-9a-aza-9a-homoerithromycin A and 5-O-desosaminyl-9-deoxo-9-dihydro-9a-aza-9a-homoerithronolide A, of the general formula 1,



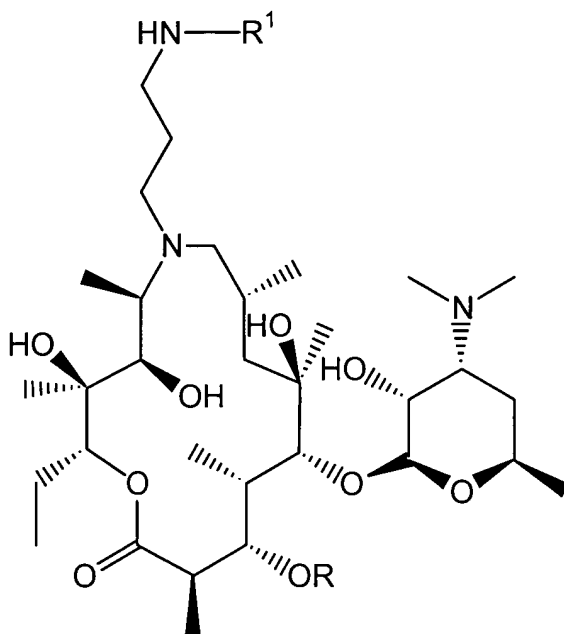
wherein R represents H or cladinosyl moiety,

R<sup>1</sup> represents H or  $\beta$ -cyanoethyl moiety,

R<sup>2</sup> represents isopropyl, 1-naphtyl, 2-naphtyl, benzyl, 2-(trifluoromethyl) phenyl, 3-phenylpropyl,  $\beta$ -phenylethyl, ethoxycarbonylmethyl, 1-(1-naphtyl)ethyl, 3,4, 5-trimethoxyphenyl and 2,4-dichlorophenyl group, and

X represents O ~~and~~ or S,

characterized in that 9a-N- ( $\gamma$ -aminopropyl) and 9a-N-[N'-( $\beta$ -cyanoethyl)- $\gamma$ -aminopropyl] derivatives of 9-deoxo-9-dihydro-9a-aza-9a-homoerithromycin A and 5-O-desosaminyl-9-deoxo-9-dihydro-9a-aza-9a-homoerithronolide A general formula 2,

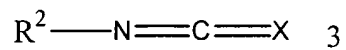
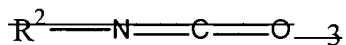


2

wherein R represents H and or a cladinosyl group and

R<sup>1</sup> represents H and or a β-cyanoethyl group

is reacted with isocyanates or isothiocyanates general formula 3



wherein R<sup>2</sup> represents isopropyl, 1-naphtyl, 2-naphtyl, benzyl, 2- (trifluoromethyl) phenyl, 3-phenylpropyl, (3-phenylethyl, ethoxycarbonyl- methyl, 1-(1-naphtyl) ethyl, 3,4, 5-trimethoxyphenyl and 2,4-dichlorophenyl group, and

X represents O and or S,

in toluene, xylene or some others aprotic solvents at a temperature 0° -110° C and then, if appropriate, to a reaction with inorganic or organic acids.

55. (Currently Amended) Pharmaceutical compositions comprising a pharmaceutically acceptable ~~carrier~~ carrier and an antibacterially effective amount of the ~~substances~~ substance according to claim 1.
56. (Canceled)
57. (New) A method of treating bacterial infections comprising administering the substance according to claim 1.
58. (New) The method according to claim 57, wherein  $R^1$  represents H.
59. (New) The method according to claim 57, wherein  $R^2$  represents a 1-naphthyl, 2-naphthyl, 1-(1-naphthyl)ethyl, or 2,4-dichlorophenyl group.